CTA CHEST/Abd/Pelvis 16Sensation

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Indications	trauma, acute aortic syndrome, suspected aneurysm/dissection						
Diagnostic Task	Detect aneurysms, aortic dissections						
Scan mode	Helical						
Position/Landmark	Head first-Supine 1cm to shoulders/inspiration						
Topogram	AP 50mA 120kV						
kVp/Reference mass	120kv 200mas/Care Dose ON/100kv if pt under 140lbs						
Rotation time/pitch	0.5/pitch 1.0						
Detector Configuration	16x0.75						
Table Speed/Increment	12						
Dose reduction	CareDose 4D						
Allowed CTDI ranges*	7mGy-50mGy						
XR29 Dose Notification value	50mGy						
Helical Set 1		body	thickness	5		recon	
NON CONTRAST	recon	part	spacing	kernel	window	destination	
	1	chest	2mmx 2mm 3	1medium smooth r	nediastinum	pacs	
Helical Set 2		body	thickness			recon	
ARTERIAL	recon	part	spacing	kernel	window	destination	
	1	chest cta	2mmx 2mm	31medium smooth	mediastinum	pacs	
	2	lung	1mmx 1mm	70 very sharp	lung	, pacs	
	3	thin c/a/p	1mmx.8mm	31medium smooth	mediastinum	for mpr/TR	
	4	lung	1mmx0.8mm		lung	mpr	
Scan start/End location	NC 2cm superior to lung apices// arterial 2cm superior to lung apices						
	NC through hepatic dome// lesser trochanters						
DFOV	40cm decrease appropriately						
3D Technique Used	2x2 coronal and sag coronal chest/abd/pevlis reformats from recon 3						
	5x2 oblique coronal and oblique sag aorta MIP from recon 3(optional 3d aorta)						
	10x2 axial mip lung from recon 4						
IV contrast volume/type		isovue 370					
Scan delay				scending aorta(level in	ust inferior to car	ina)	
		Bolus Tracking at descending aorta(level just inferior to carina) Trigger is +100HU					
	Comme	Comments: Being able to locate the descending aorta is important. The montoring					
		phase will not trigger properly and the scan will not start correctly if the roi is not placed on the correct anatomy					
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	Patient size	:	weight(kg)	weight(lbs)		CTDIvol(mGy)	
	SMALL		50-70	110-155		4-10	
	AVERAGE LARGE		70-90 90-120	155-200 200-265		8-16 14-22	
			A XR20 Deep Notification	Value for an adult torge is E0mC			

NOTE*

*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum

allowed range should not be performed unless approved by a radiologist.

Revision Date 3-22-2018 Approved by Dr Verdini